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**ABSTRACT**

An intravascular stent especially suited for implanting in curved arterial portions. The stent retains longitudinal flexibility after expansion. The stent includes a plurality of first circumferential bands containing a pattern of loops at a first frequency and a plurality of second circumferential bands containing a pattern of loops at a second frequency higher than said first frequency, alternating with said first circumferential bands and periodically coupled thereto to form cells. The high frequency elements provide a flexibility after expansions which can be repeatedly stressed by the beating heart, without exceeding the elastic limit of the stent material.